

*The National Park Service presents*  
***Seminars in Science Education: Natural Research in the Heart of NYC***  
*A series of four learning sessions involving Field Scientists and Master Teachers*

“Climate change, altered migration patterns, new habitat and bloom cycles, water quality, sea level rise”

Join us for a series of presentations by and conversations with researchers and master teachers to explore the science behind these big issues and make connections to what is happening at the Gateway National Recreation Area sites around Jamaica Bay.

**Friday May 4: Jamaica Bay Citizen Scientists: Gathering, Reporting, and Analyzing Environmental Data**

Researchers and teachers share the kinds of information that is being monitored at Jamaica Bay to help understand plant and animal responses to climate change. *Phenologists* are capturing information about seasonal biological phenomena, such as when certain plants flower and patterns of turtle breeding at Jamaica Bay. By helping with the collection of data, students and teachers are working with scientists to document how these natural events are being impacted by changes in the environment and are, in turn, altering the entire ecosystem.

*Presenters:*

Russell Burke, Hofstra University Professor - Diamond Back Terrapin citizen science

Susan Pell, Brooklyn Botanical Garden Director of Science - Phenology Research in NYC

Educator from BBG Staff: Education possibilities with phenology

TENTATIVE Richard Primak, Boston University Professor of Biology - Scientist: historical research to find climate change trends in phenology

Marianne Williams, Channel View School for Research Living Environment Teacher - phenology and student exit projects

Where: Jamaica Bay Wildlife Refuge Visitor Center

When: 9:00 AM to 3 PM

Register by April 2: Registration is required: Please [e-mail us](#) for information and reservations. Insert "seminars" in the subject line, in the text area include the workshops you want to attend, your name, school name and address, grade level you teach, phone number, and preferred e-mail address.

